

Mars Exploration Science Monthly Newsletter

A publication of the Mars Program Office and the Mars Exploration Program Analysis Group (MEPAG)

July 2014

Mars Science News

Last reminder to register for the Eighth International Conference on Mars

July 14-18 at Caltech, Pasadena, CA

We invite all Mars scientists to attend and help summarize our current understanding of Mars, consolidate our primary paradigms for martian processes and history, and refocus the primary scientific questions that remain in front of us. **Online registration is open through June 30th** and is strongly encouraged to assist with conference logistical planning. On-site registration will also be available. There is no registration fee. The 3rd announcement and final program were posted on May 30th at

www.hou.usra.edu/meetings/8thmars2014/.

Special Mars-relevant Sessions at GSA meeting

Geological Society of America Meeting; October 19-22, Vancouver, BC, Canada

Abstracts are due July 29, 2014.

MicroMars to MegaMars: Integration of Surface and Orbital Investigations

Whereas on Earth the study of geology evolved from one of field work to incorporation of remote sensing, that of Mars is the reverse, with orbital-based data only complemented by surface investigations from rovers in the last 10+ years. The merging of these datasets has yielded profound new understandings of the geologic history and modern processes on Mars. This session seeks abstracts that incorporate data from surface (MSL, MER, etc.) and orbital (MRO, MEX, Odyssey, etc.) missions that have increased our understanding of Martian geology. Session organizers: Nathan Bridges (nathan.bridges@jhuapl.edu), Alfred McEwen (mcewen@lpl.arizona.edu), and David Rubin (geology.dr@gmail.com).

Dynamic Planetary Geology Revealed by Long-Term Observations

Our focus is time-variable geology observed on a range of worlds beyond Earth. We welcome abstracts on processes ranging from impact, aeolian, mass-wasting, and lacustrine to phase changes and volatile transport over various timescales; and abstracts about all bodies in the solar system. Session organizers: James Wray (jwray@eas.gatech.edu), Colin Dundas (cdundas@usgs.gov), Alex Hayes (hayes@astro.cornell.edu).

SPICE training class

October 21-23, 2014 in MD, USA

NASA's Navigation and Ancillary Information Facility (NAIF) announces a SPICE training class will be held Oct 21 - 23 2014, on the East Coast of the U.S., in Maryland. Details about the class and the registration form are available here:

http://naif.jpl.nasa.gov/naif/WS2014_announcement.html

The class is designed for professionals working in the field of solar system research. It will consist of a combination of lectures, based on the SPICE tutorials, and student-executed programming lessons ("open book" style), available in each of the four programming languages supported by NAIF (Fortran 77, C, IDL and Matlab).

There is no charge for the class, but **advance registration is required: ASAP and no later than September 16**. Seats will be allocated only upon NAIF receiving a completed registration form. Allocation will be done on a first come -- first served basis. NASA and NAIF reserve the right to revise the agenda or cancel the class at any time without prior notice.

Near-term Due Dates (next three months)

Due	Project
June 30, 2014	Eighth International Conference on Mars Registration deadline (on-site available) Origins 2014 Registration deadline (on-site available)
July 1, 2014	IEEE Aerospace Conference Abstract deadline
July 25, 2014	5th Planetary Crater Consortium Meeting Abstract deadline
July 28, 2014	International Workshop on Instrumentation for Planetary Missions (IPM-2014) Abstract deadline
July 29, 2014	Geological Society of America Annual Meeting Abstract deadline
August 1, 2014	45th Annual Binghamton Geomorphology Symposium, Planetary Geomorphology Abstract deadline
August 6, 2014	AGU Fall Meeting Abstract deadline
August 15, 2014	EANA 2014 - The 14th European Astrobiology Conference Abstract and Early Registration deadline
August 21, 2014	46th Meeting of the American Astronomical Society Division of Planetary Sciences (DPS 2014) Abstract deadline
August 26, 2014	46th Meeting of the American Astronomical Society Division of Planetary Sciences (DPS 2014) Early registration deadline
August 31, 2014	45th Annual Binghamton Geomorphology Symposium, Planetary Geomorphology Registration deadline (on-site available)
September 15, 2014	International Workshop on Instrumentation for Planetary Missions (IPM-2014) Registration deadline Geological Society of America Annual Meeting Registration deadline

Upcoming Conferences and Workshops

Third Quarter, 2014		
	July 6-11, 2014 Nara, JAPAN	ORIGINS 2014 http://www.origin-life.gr.jp/origins2014/index.html
	July 7-11, 2014 London, UK	6th Alfvén Conference: Plasma interaction with solar system objects: anticipating Rosetta, Maven and Mars Orbiter Mission https://www.ucl.ac.uk/mssl/planetary-science/alfven-conference
	July 14-18, 2014 Pasadena, CA, USA	Eighth International Conference on Mars http://www.hou.usra.edu/meetings/8thmars2014/
	July 14-18, 2014 Pasadena, CA, USA	Annual Planetary Science Summer School, Session II http://pscischool.jpl.nasa.gov
	July 21-23, 2014 Moffett Field, CA, USA	NASA's Solar System Exploration Research Virtual Institute Exploration Science Forum http://lunarscience.arc.nasa.gov/NESF2014/
	July 21-25, 2014 Lanzhou, CHINA	Eighth International Conference on Aeolian Research (ICAR VIII) http://www.2014icar8.com , Special session - Extra-terrestrial Aeolian research

Third Quarter, 2014

	August 2-10, 2014 Moscow, RUSSIA	40th COSPAR 2014 and Associated Events http://www.cospar-assembly.org/
	August 6-8, 2014 Flagstaff, AZ, USA	5th Planetary Crater Consortium Meeting http://www.planetarycraterconsortium.nau.edu/PCCMeeting.htm
	August 11-15, 2014 Pasadena, CA, USA	Annual Planetary Science Summer School, Session III http://pscischool.jpl.nasa.gov
	August 18-22, 2014 Geneva, SWITZERLAND	ISC 2014 Sedimentology at the Crossroads of New Frontiers http://www.sedimentologists.org/meetings/isc Session 038 - Extraterrestrial Sedimentology
	September 7-12, 2014 Centro de Congressos do Estoril, Cascais, PORTUGAL	European Planetary Science Congress http://www.epsc2014.eu/
	September 8-12, 2014 Rio de Janeiro, BRAZIL	First Astrobiology School at the Observatorio Nacional http://www.on.br/coaa/astrobion2014/indexeng.html
New!	September 12-14, 2014 Knoxville, TN, USA	45th Annual Binghamton Geomorphology Symposium, Planetary Geomorphology http://web.eps.utk.edu/symposium/index.php
	September 21, 2014	MAVEN Mars Orbit Insertion (MOI)
	September 24, 2014	The Indian Space Research Organisation (ISRO) Mars Orbiter Mission (MOM) Mars Orbit Insertion

Fourth Quarter, 2014

	October 13-16, 2014 Edinburgh, SCOTLAND	EANA 2014 - The 14th European Astrobiology Conference http://www.astrobiology.ac.uk/eana2014/
	October 19-22, 2014 Vancouver, British Columbia, CANADA	Geological Society of America Annual Meeting http://www.geosociety.org/meetings/2014/ Special Session - MicroMars to MegaMars: Integration of Surface and Orbital Investigations
	October 19, 2014	Comet Siding Spring closest approach to Mars
	October 27-29, 2014 St. Louis, MS, USA	ASCE Earth and Space 2014, Engineering for Extreme Environments http://earthspaceconf2014.mst.edu/
	November 3-5, 2014 Houston, TX, USA	Workshop on Volatiles in the Martian Interior http://www.hou.usra.edu/meetings/volatiles2014/
	November 4-7, 2014 Greenbelt, MD, USA	2nd International Workshop on Instrumentation for Planetary Missions (IPM-2014) http://ssed.gsfc.nasa.gov/IPM/
	November 9-14, 2014 Tucson, AZ, USA	46th Meeting of the American Astronomical Society Division of Planetary Sciences (DPS 2014) http://aas.org/meetings/dps46
	December 15-19, 2014 San Francisco, CA, USA	AGU Fall Meeting http://fallmeeting.agu.org/2014/

2015

New!	March 7-14, 2015 Big Sky, MT, USA	IEEE Aerospace Conference http://www.aeroconf.org/
New!	March 16-20, 2015 The Woodlands, TX, USA	46th Lunar and Planetary Science Conference http://www.hou.usra.edu/meetings/lpsc2015/
New!	June 15-19, 2015 Chicago, IL, USA	Astrobiology Science Conference 2015 (Abscon) http://www.hou.usra.edu/meetings/abscon2015/
	November 1-4, 2015 Baltimore, MD, USA	Geological Society of America Annual Meeting

2016

	January 7, 2016	20-Day ExoMars Launch Period Opens
	March 8, 2016	20-Day Insight Launch Window Opens
	September 20, 2016	Insight Arrival at Mars
	October 16, 2016	ExoMars Arrival at Mars

Seasons on Mars

	MY32	MY33	MY34
Start of Northern Spring / L_s 0	7/31/2013	6/18/2015	5/05/2017
Start of Northern Summer / L_s 90	2/15/2014	1/03/2016	11/20/2017
Start of Northern Autumn / L_s 180	8/17/2014	7/04/2016	5/22/2018
Start of Northern Winter / L_s 270	1/11/2015	11/28/2016	10/16/2018

Special holidays to consider when scheduling conferences/workshops/meetings:

Good Friday	4/18/2014	4/3/2015	4/6/2016	4/14/2017
Rosh Hashanah	9/25/2014	9/14/2015	9/16/2016	9/20/2017
Yom Kippur	10/4/2014	9/23/2015	9/25/2016	9/29/2017

(Note that Jewish holidays start at sundown the previous evening)

Thanksgiving Day, U.S.	11/27/2014	11/26/2015	11/22/2016	11/23/2017
Thanksgiving Day, Canada	10/13/2014	10/12/2015	10/8/2016	10/9/2017
Christmas Day	12/25/2014	12/25/2015	12/25/2016	12/25/2017

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Please send your Mars Community Announcements and calendar items for inclusion in next month's email to:

Carla de la Paz at paz@jpl.nasa.gov, 818-354-3160.

All announcements listed in this newsletter will be posted on the MEPAG website, available at:

<http://mepag.jpl.nasa.gov>